

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 04-248272

(43)Date of publication of application : 03.09.1992

(51)Int.Cl.

H01M 8/02
H01M 8/12
// B01J 13/00

(21)Application number : 03-011627

(71)Applicant : CENTRAL RES INST OF ELECTRIC
POWER IND

(22)Date of filing : 09.01.1991

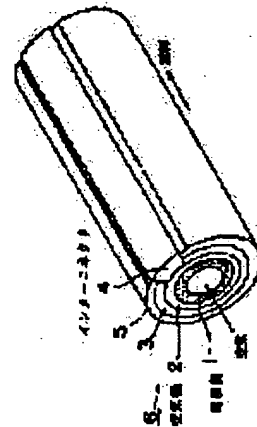
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(54) MANUFACTURE OF INTERCONNECTOR OF LATERAL-STRIPED CYLINDRICAL SOLID ELECTROLYTE FUEL CELL

(57)Abstract:

PURPOSE: To manufacture a connector of a lateral-striped cylindrical solid electrolyte fuel cell with lanthanum chromite, and to manufacture it at a low cost, in a short time, and in a simple way.

CONSTITUTION: A powder of a specific mixing ratio of lanthanum calcium chromite $\text{La}_{1-x}\text{Ca}_x\text{Cr}_1-y\text{O}_3$ in which $0 < x \leq 0.40$ and $0.05 \leq y \leq x$ is made into a slurry, and coated on an air electrode 2 and baked, so as to form an interconnector 4.



LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

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Sep 3, 1992

DERWENT-ACC-NO: 1992-344345

DERWENT-WEEK: 200172

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TITLE: Interconnector prodn. for wrap streak solid-state electrolytic fuel cell - comprises pulverising composite oxide of lanthanum, calcium and chromium to form slurry, coating on air pole and sintering

PATENT-ASSIGNEE:

ASSIGNEE

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CODE

DENY

PRIORITY-DATA: 1991JP-0011627 (January 9, 1991)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 04248272 A	September 3, 1992		004	H01M008/02
JP 3224822 B2	November 5, 2001		004	H01M008/02

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
JP 04248272A	January 9, 1991	1991JP-0011627	
JP 3224822B2	January 9, 1991	1991JP-0011627	
JP 3224822B2		JP 4248272	Previous Publ.

INT-CL (IPC): B01J 13/00; C04B 35/42; H01M 8/02; H01M 8/12

ABSTRACTED-PUB-NO: JP 04248272A

BASIC-ABSTRACT:

Connector $\text{La}(1-x)\text{CaxCr}_1\text{yO}_3$ of component molecule ratio $\text{La}:\text{Ca}:\text{Cr} = (1-x):X:(1-y)$ where x is more than 0 and up to 0.4, y is more than 0 and up to 0.05 and y is up to x . Oxide is pulverised to a slurry, which is coated on an air pole and sintered.

ADVANTAGE - The connector is produced at lower cost in a short time, since it is sintered at lower temp.

In an example, a mixt. of 401g of lanthanum nitrate, 100 g of calcium nitrate and chromium nitrate was dissolved in 529 g distilled water, dripped in an ethanol soln. contg. excess oxalic acid, dried by cool air, heated to 360 deg.C for 5 hours, ball milled, sintered for 10 hours at 1000 deg.C, mixed with 300-400 l solvents and 48-53 polyvinyl alcohol etc. to form a slurry. A fuel cell was prepd. by an air pole (2) of lanthanum manganite adhered on a porous substrate tube (1), sintered for 5 hours at 1300 deg.C in air. The slurry was coated on it in an axial direction with required width on (2), sintered for 5 hours at 1300 deg.C in air to form inter connector film (4). Lanthanum chromite powder was adhered on it for masking, a zirconia electrolyte film (3) was formed on it by EVD method, a fuel pole (5) of Ni-zirconia thermet was coated on it to form a fuel cell.

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CHOSEN-DRAWING: Dwg.1/1

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TITLE-TERMS: INTERCONNECT PRODUCE WRAP STREAK SOLID STATE ELECTROLYTIC FUEL CELL
COMPRISE PULVERISE COMPOSITE OXIDE LANTHANUM CALCIUM CHROMIUM FORM SLURRY COATING
AIR POLE SINTER

DERWENT-CLASS: A81 L03 X16

CPI-CODES: A12-E06; L03-E04;

EPI-CODES: X16-C01;

UNLINKED-DERWENT-REGISTRY-NUMBERS: 1810U; 1905U

POLYMER-MULTIPUNCH-CODES-AND-KEY-SERIALS:

Key Serials: 0231 1996 2198 2739 3258

Multipunch Codes: 014 04- 23& 231 236 359 50& 60- 623 627 651

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1992-153051

Non-CPI Secondary Accession Numbers: N1992-262448

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